

DP-308996

CONTROL APPARATUS FOR STAGGERED SPARK
PLUG FIRING IN A DUAL-PLUG SPARK IGNITION ENGINE

Abstract of the Disclosure

Staggered firing of first and second spark plugs in a dual-plug spark ignition engine is achieved by apparatus that fires the first spark plug based on an output signal produced by an engine control module and firing the second
5 plug based on the output of a delay control circuit responsive to the output signal produced by the engine control module. The delay control circuit additionally detects engine speed based on the firing frequency of the first spark plug, and selects a delay time so that the firing of the second spark plug is delayed with respect to the firing of the first spark plug by a calibrated angle of
10 engine rotation.